

# ClientInstaller

## client installer module

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## 1. Overview

**ClientInstaller:** *client installer module*

### 1.1. Intent

- Automates the installation of a ControlTier Client and bootstraps the client into the current project. Features automated install of the ControlTier Installer (client mode) and dependent Java Package.
- Support additional configurations for installation on a Cygwin/Win32 based client.

### 1.2. Problem

Provides an automation solution for the ControlTier client installation which can then be exposed at the Jobcenter level. This should provide an automation solution for users who may lack the knowledge of a ControlTier installation and/or have the responsibility for many installations within a captured process.

### 1.3. Discussion

This module is somewhat atypical of a normal ControlTier [Deployment](#) in that we are bootstrapping a ControlTier client into a project. However, the concept of a Deployment holds in that we are provisioning an entity (the ctier framework instance for the Node) with package dependencies (ControlTier Installer and Java). A "Separation of Concerns" should be considered here prior to automating this process. Many organizations, depending on policy and available resources, may automate this process within a Systems Operations provisioning solution such as [Puppet](#). Consider implementation of this specific process as an alternative to a larger scoped provisioning solution.

## 2. Design

### Super Type Deployment

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>
Notification	<b>false</b>
Template Directory	
Data View	Children, proximity: 1

Logger Name	ClientInstaller
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### 3. Constraints

#### 3.1. Allowed Child Dependencies

- [ClientInstallerCygwinClient](#) 1  
allowed setting dependency to override behavior to apply cygwin related configuration, see attribute-defaults.
- [ClientInstallerTargetCTierRoot](#) 1  
allowed setting dependency, to override the target CTIER\_ROOT, see attribute-defaults.
- [ClientInstallerTargetUser](#) 1  
allowed setting dependency, to override the target user, see attribute-defaults.
- [ClientInstallerTrustClient](#) 1  
allowed setting dependency, if settingValue set to true, will blindly trust remote clients over ssh, see attribute-defaults.
- [CTierInstallerZip](#) 1  
allowed package dependency, to specify controltier installer package
- [JavaBin](#) 1  
allowed package dependency, to specify dependent unix based java package
- [JavaZip](#) 1  
allowed package dependency, to specify dependent windows based java package

1: These types have a *Singleton* constraint. Only one instance may be added as a resource.

### 4. Attributes

#### 4.1. Defaults for Imported Attributes

Name	Default	Description
cygwinClient	false	sets cygwinClient to false and assumes a traditional unix client
targetCTierRoot	ctier	sets remote CTIER_ROOT as the "ctier" subdirectory of the remote user's \$HOME

targetUser	\${user.name}	sets remote target user to the local username as a reasonable default username
trustClient	false	sets trustClient to false to default to normal ssh behavior regarding trusting remote clients on the network

## 5. Commands

View the available commands in the [User Reference](#).

## 6. Related Types

The following types are defined for use with ClientInstaller.

### 6.1. ClientInstallerCygwinClient

#### 6.1.1. Overview

**ClientInstallerCygwinClient:** *client installer target user*

#### 6.1.2. Design

**Super Type**  
DeploymentSetting

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

#### 6.1.3. Attributes

##### 6.1.3.1. Exported Attributes

Name	Property	Description
cygwinClient	settingValue	If true, will override the assumption of a native unix client and will establish configuration suitable for a cygwin ControlTier client

## 6.2. ClientInstallerTargetCTierRoot

### 6.2.1. Overview

**ClientInstallerTargetCTierRoot:** *target CTIER\_ROOT*

### 6.2.2. Design

#### Super Type

DeploymentSetting

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.2.3. Attributes

#### 6.2.3.1. Exported Attributes

Name	Property	Description
targetCTierRoot	settingValue	relative or absolute path name of the CTIER_ROOT for the installed client. By default, ControlTier client is installed into "ctier" subdirectory of the remote user's \$HOME

## 6.3. ClientInstallerTargetUser

### 6.3.1. Overview

**ClientInstallerTargetUser:** *client installer target user*

### 6.3.2. Design

#### Super Type

DeploymentSetting

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.3.3. Attributes

### 6.3.3.1. Exported Attributes

Name	Property	Description
targetUser	settingValue	Identifies the target user for the installed ControlTier client

## 6.4. ClientInstallerTrustClient

### 6.4.1. Overview

**ClientInstallerTrustClient:** *trust remote ssh execution when trying to install on remote client*

### 6.4.2. Design

**Super Type**  
DeploymentSetting

Role	<b>Concrete.</b> (Objects can be created.)
Instance Names	<b>Unique</b>

### 6.4.3. Attributes

#### 6.4.3.1. Exported Attributes

Name	Property	Description
trustClient	settingValue	If true, will override the ssh host key protection by ignoring whether remote client is present in the local ssh known hosts file